

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/002527

## A. CLASSIFICATION OF SUBJECT MATTER

### **IPC7 H04R 19/04**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
eKIPASS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 20-0332944 Y1 (BSE CO., LTD) 14 November 2003 See the Abstract, Claims 1-12, Figs. 1, 2	1-11
A	KR 2002-0024122 A (BUJEON COMPONENTS CO., LTD) 29 March 2002 See the Abstract	1-11
A	JP 2003-061176 A (YAMAHA METANIKUSU KK) 28 February 2003 See the Abstract	1-11
A	JP 2003-169395 A (CITIZEN ELECTRONICS CO., LTD) 13 June 2003 See the Abstract	1-11
A	JP 58-207800 A (TOSHIBA CORP.) 03 December 1983 See the Abstract	1-11

Further documents are listed in the continuation of Box C.

See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search  
**20 JANUARY 2005 (20.01.2005)**

Date of mailing of the international search report

**21 JANUARY 2005 (21.01.2005)**

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WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	4-11	YES
	Claims	1-3	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-11	NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims	None	NO

**2. Citations and explanations :**

Reference is made to the following documents:

D1 = KR 20-0332944 Y1 (BSE CO., LTD) 14 November 2003

The subject-matter of claims 1-11 is about a condenser microphone which is provided to enhance the connection accuracy between the terminals of the main PCB and those of the condenser microphone.

The technical feature of the present invention is that the condenser microphone is assembled by arranging a diaphragm, a spacer, a shield ring, a back plate, an integrated base and a PCB sequentially, and curling the end part of a case.

D1 discloses a condenser microphone, which comprises a case, a polar ring, a diaphragm, a back plate, a first base, a second base and a PCB, and which is provided to bring the terminals of the condenser microphone into prominence higher than the curling section. D1 also discloses a technical feature that an IC mounted on the PCB can include a FET, an amplifier, an A/D converter, a decimation filter, and a digital interface.

Claims 1-3 are not considered to be novel.

Claims 4-7 include an integrated base as their technical feature, but it would be obvious to a skilled person in the art from the view-point of document D1.

The further technical features of claims 8, 10, 11 are not explicitly disclosed in document D1, but they would be obvious to a skilled person in the art, and the further technical feature of claim 9 is disclosed in document D1 as above.

Therefore, the subject-matter of claims 1-3 is not considered to be novel, and the subject-matter of claims 4-11 is not considered to involve an inventive step.

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